

OPERATING INSTRUCTIONS AND OWNER'S MANUAL

MR. HEATER

MODEL

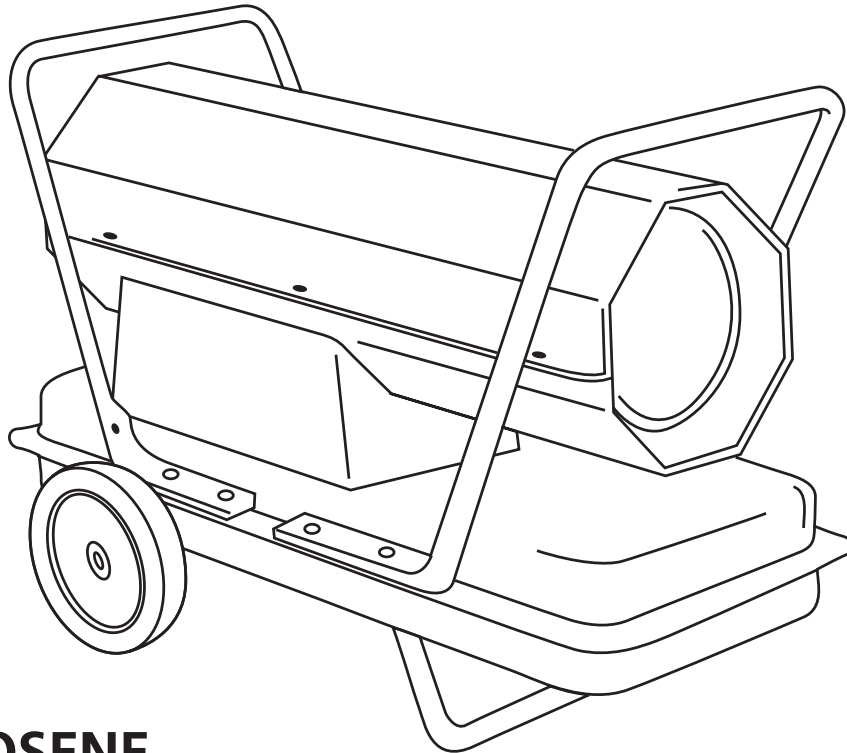
MH50KT, MH75KT,
MH125KT, MH175KT

READ INSTRUCTIONS CAREFULLY: Read and follow all instructions. Place instructions in a safe place for future reference. Do not allow anyone who has not read these instructions to assemble, light, adjust or operate the heater.

HEATSTAR

MODEL

HS50KT, HS75KT,
HS125KT, HS175KT



KEROSENE FORCED-AIR HEATER

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Service must be performed by a qualified service agency.

This is an unvented portable heater. It uses air (oxygen) from the area in which it is used. Adequate combustion and ventilation air must be provided. Refer to page 3.



UL-733, &CSA/CAN3-B140.9.3

WARNING:

- ⚠ YOUR SAFETY IS IMPORTANT TO YOU AND TO OTHERS, SO PLEASE READ THESE INSTRUCTIONS BEFORE YOU OPERATE THIS HEATER.

GENERAL HAZARD WARNING:

- ⚠ FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.
- ⚠ ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.
- ⚠ IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABELS, ETC. CONTACT THE MANUFACTURER.

WARNING:

- ⚠ NOT FOR HOME OR RECREATIONAL VEHICLE USE

WARNING:

- ⚠ FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

WARNING:

- ⚠ **The State of California requires the following warning:** COMBUSTION BY-PRODUCTS PRODUCED WHEN USING THIS PRODUCT CONTAIN CARBON MONOXIDE, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS (OR OTHER REPRODUCTIVE HARM).

WARNING:

- DO NOT USE GASOLINE, NAPHTHA OR VOLATILE FUELS.
- STOP HEATER BEFORE ADDING FUELS.
- ALWAYS FILL OUTDOORS AWAY FROM OPEN FLAME
- DO NOT USE EXTERNAL FUEL SOURCE.
- DO NOT OPERATE HEATER WHERE FLAMMABLE LIQUIDS OR VAPORS MAY BE PRESENT.
- DO NOT START HEATER WHEN CHAMBER IS HOT
- DO NOT START HEATER WHEN EXCESS FUEL HAS ACCUMULATED IN THE CHAMBER.
- DO NOT PLACE COOKING UTENSILS ON TOP OF THE HEATER.
- PLUG ELECTRICAL CORD INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE.

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50K & 75KT WARNING:

Not suitable for use on wood floors or other combustible materials. When used the heater should rest on a suitable insulating material at least 1 inch thick and extending 3 feet or more beyond the heater in all directions.

SPECIFICATIONS

Type of Fuel: For use with Kerosene or #1 Fuel Oil ONLY on ALL models.

Model	50K	75KT	125KT	175KT
Burn Rate:	50,000 Btu/hr (15 kW)	75,000 Btu/hr (22 kW)	125,000 Btu/hr (37 kW)	175,000 Btu/hr (51 kW)
Fuel Rate:	0.37 gal/hr (1.4 L/hr)	0.55 gal/hr (2.1 L/hr)	0.96 gal/hr (3.5 L/hr)	1.3 gal/hr (5.0 L/hr)
Electrical Input:	115V, 60Hz, 3.5a	115V, 60Hz, 4a	115V, 60Hz, 5.5a	115V, 60Hz, 5.5a
Line Protection:	10 amps	10 amps	20 amps	20 amps
Min. Operating Voltage:	110V	110V	110V	110V
Pressure Setting:	3.5 psig (24 kPa)	4.2 psig (29 kPa)	5.0 psig (34 kPa)	5.8 psig (40 kPa)
Max. Outlet Temperature:	1300°F (704°C)	1300°F (704°C)	1300°F (704°C)	1300°F (704°C)
Fuel Tank Capacity:	4 gallons (15.1 L)	6 gallons (22.7 L)	14 gallons (53 L)	14 gallons (53 L)
Ignition:	Direct Spark, Continuous	Direct Spark, Continuous	Direct Spark, Continuous	Direct Spark, Continuous
Spark Generator:	Igniter 13 kV, 10ma	Igniter 13 kV, 10ma	Igniter 13 kV, 10ma	Igniter 13 kV, 10ma
Primary Safety Control:	Solid State Control	Solid State Control	Solid State Control	Solid State Control
Certification:				

OPERATING PRECAUTIONS

This is a kerosene, direct-fired, forced air heater. It's intended use is primarily temporary heating of buildings under construction, alteration or repair.

Direct-Fired means that all of the combustion products enter the heated space. Even though this heater operates very close to 100 percent combustion efficiency, it still produces small amounts of carbon monoxide. Carbon monoxide (called CO) is toxic. We can tolerate small amounts but not a lot. CO can build up in a heated space and failure to provide adequate ventilation could result in death. The symptoms of inadequate ventilation are:

- headache
- dizziness
- burning eyes and nose
- nausea
- dry mouth or sore throat

So, be sure to follow advice about ventilation in these operating instructions.

Forced Air means that a blower or fan pushes the air through the heater. Proper combustion depends upon this air flow; therefore, the heater must not be revised, modified or operated with parts removed or missing. Likewise, safety systems must not be circumvented or modified in order to operate the heater.

When the heater is to be operated in the presence of other people the user is responsible for properly acquainting those present with the safety precautions and instructions, and of the hazards involved.

SAFETY PRECAUTIONS

1. Check the heater thoroughly for damage. DO NOT operate a damaged heater.
2. DO NOT modify the heater or operate a heater which has been modified from its original condition.
3. Use only Kerosene. Never use gasoline, naphtha, paint thinner, alcohol or other fuels of any kind.
4. For indoor use only. Not for use where exposed to weather.
5. Use in well ventilated areas, provide at least 2 sq. ft. (0.19 sq. m.) of opening near the floor and 2 sq. ft. (0.19 sq. m.)

near the ceiling directly to outdoors. Increase air openings as marked for each additional heater.

6. Always keep combustibles, like paper and wood at least 8 ft. (2.4 m) from the heater outlet and 3 ft. (1.0 m) from the top, sides and inlet. Locate 10 ft. (3.0 m) from canvas or plastic coverings and secure them to prevent flapping movement.
7. Caution: Due to the high surface and exhaust temperatures, adults and children must observe clearances to avoid burns or clothing ignition. Do Not Touch. Keep Children, Clothing, and Combustibles away.
8. Install the heater such that it is not directly exposed to water spray, rain and / or water.
9. Never use in areas normally for habitation and /or where children may be present.
10. Operate only on a stable, level surface. (MH50K & MH75KT – See wood floor warning).
11. Do not use with duct work. Do not restrict inlet or exit.
12. Use only with electrical power specified. The electrical connection and grounding must comply with National Electrical Code – ANSI/NFPA 70 (USA) and CSA C22.1 Canadian Electrical Code, Part 1 (Canada).
13. Use only a properly grounded 3-prong receptacle or extension cord.
14. Do not move, handle, or service while hot or burning.
15. Use only in accordance with local, state (provincial) or National requirements, ordinances and codes.

OPERATING INSTRUCTIONS

UNPACKING

1. Remove all protective material which may have been applied to the heater for shipment.
2. Remove heater from carton.
3. Check the heater for possible shipping damage. If any damage is found immediately notify the dealer from whom you purchased the heater.

ASSEMBLY (For 125,000 and 175,000 BTU/hr models only)

Wheel and handles are found in the shipping carton along with mounting hardware. The wheels, axle and mounting hardware are in a package. Tools required are a 5/16" nutdriver, 3/8" open or adjustable wrench and standard pliers.

1. Assemble the wheels onto the wheel support frame as follows:
 - a. Install one of the cotter pins into the hole on one end of axle.
 - b. Slide the large washer, then wheel onto the axle next to the cotter pin.
 - c. Slide a small washer, spacer, small washer onto the axle next to the wheel.
 - d. Slide the partially assembled axle through the wheel support frame.
 - e. Slide the small washer, spacer, and small washer onto the axle next to the wheel support.
 - f. Slide the wheel then large washer onto the axle and hold in place with the remaining cotter pin.
 - g. Install the caps over the larger washers to finish the wheel assembly.
2. Position the heater on the wheel support frame assembly with the exit end over the wheels.
3. Use eight screws and nuts to attach the handles to the top of the tank flange. The screws will go through the handles, tank flange and wheel support frame. Install the nuts and finger tight only until all nuts are installed.
4. Tighten all the nuts.
5. Attach cord caddies to handles using No. (14) & No. (5) screws and nuts.

PREPARING FOR OPERATION

1. Check the heater for possible shipping damage. If any is found, *immediately* notify the factory.
2. Follow all of the "Precautions".
3. Fill the fuel tank with clean kerosene. In extremely cold weather, condensation may develop in the tank and it is recommended that a tablespoon of de-icer be added for each gallon (4 liters) of fuel in the tank. When filling the heater, use at least 2 gallons (8 liters) of fuel. Be sure heater is level and do not overfill. Use a funnel or can with a long fill spout.

IMPORTANT: Before filling fuel tank the first time or after extended storage periods, drain the fuel tank of any moisture or condensation.

4. Locate heater at a safe distance from combustible materials. Models 50K & 75KT is not suitable for use on wood floors or other combustible materials. When used, the heater should rest on suitable insulating material at least 1 inch thick and extending 3 ft. or more beyond the heater in all directions.

START

1. **50K:** Plug the heater into a grounded 115V, 60 Hz, 1 Ø outlet.

75KT, 125KT & 175KT: Turn thermostat to lowest setting, make sure "On/Off" switch is "Off". Plug the heater into a grounded 115V, 60 Hz, 1 Ø outlet. Turn thermostat to highest setting. Start heater by push toggle switch to "On" position (light signifies switch is in "ON" position). Adjust thermostat to desired setting. Heater will cycle on/off as heat is required.

For all models: In cold weather, starting may be improved by holding a finger over the end of the pressure adjusting screw until the heater starts. This unit is equipped with a circuit breaker located near the power cord. If the unit does not start, check to see that the reset button is pressed in.

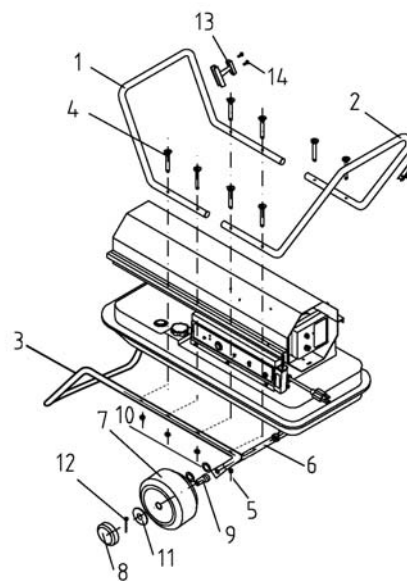
STOP

1. **50K:** Unplug heater from power source.
75KT, 125KT & 175KT: Push "On/Off" switch to "Off" position. For extended shutdown, unplug heater from power source.

RESTART AFTER SAFETY SHUTDOWN (50K, 75KT, 125KT & 175KT)

1. Wait 5 minutes.
2. Press reset button.

Handle assembly for 125KT 175KT only.



ITEM	PART NO.	DESCRIPTION	QTY
1	M4365	Handle, Front	1
2	M4338	Handle, Rear	1
3	M4339	Wheel Support Frame	1
4	M6977	Machine Screw Blk (long)	8
5	M6037	Kep Nut Blk	12
6	M8746	Axle	1
7	M8752	Wheel	2
8	M8751	Cap	2
9	M8748	Spacer	2
10	M8747	Washer, Small	4
11	M8749	Washer, Large	2
12	M8750	Cotter Pin	2
13	M8754	Ext. Cord Caddy	2
14	M7336	Machine Screw Blk (Small)	4

MAINTENANCE AND STORAGE

WARNING. To prevent personal injury, unplug the heater from the wall outlet before servicing.

For maximum efficiency and trouble-free service, make the following periodic maintenance, cleaning and inspections.

DAILY SCHEDULE

1. **GENERAL.** Make general visual inspection of heater for loose or damaged parts. Check nuts and bolts to insure against looseness caused by vibration or rough handling. Damaged parts should be repaired or replaced before using heater again. Check heater operation to be sure it is operating normally (See "Servicing" section for description of normal operation).
2. **FILTERS.** Dirty air or fuel filters will cause an imbalance in the air-fuel mixture. The best indication that this condition exists is an increase in odors or difficulty getting your heater to ignite. This heater should never be operated without the filters in place. If required, clean filters as described under "500 Hours" and "Annual Schedules".

500 HOUR SCHEDULE

1. **AIR INTAKE FILTER.** Remove and wash the filter element with a mild detergent, dry thoroughly and replace. Do not oil the filter element. If your heater is used where there is considerable dust or dirt, clean as often as necessary (approximately every 50 hrs.).
2. **REMOVE DUST.** Clean heater twice a season (more often under dusty conditions). Remove accumulated dust from the transformer, burner, motor and fan blades with compressed air. Wipe area clean with a clean dry cloth. Inspect area to insure all foreign materials are removed, especially around the burner and combustion area.
3. **CAD CELL.** Clean the glass portion of the cad cell with a soft dry cloth.
4. **NOZZLE.** Accumulation of dirt from fuel and carbon from the compressor vanes will eventually fill up the passages in the nozzle, resulting in reduction of fuel and air flow. Pressure will gradually increase giving improper fuel-air mixture and excess odor and smoke. If this occurs, replace the fuel nozzle.
5. **FUEL TANK.** Clean twice a season (during frequently used periods, clean twice a month). Drain and flush the fuel tank with clean fuel oil.

ANNUAL SCHEDULE

1. **AIR OUTPUT FILTER.** Remove the air output filter and tap the contaminated side gently on a solid object to remove contaminants. Compressed air or liquids should not be used to clean this filter. Reinstall cleaned filter in filter body in the same position as it was when removed. If the filter appears extremely dirty, replace it with a new filter of the same type. When replacing the filter cover, be sure the gasket is firmly in place and the screws in the filter cover are tight to prevent air leaks.
2. **FUEL FILTER.** Remove the fuel filter from fuel line and direct compressed air through the filter in the opposite direction of fuel flow. Safety glasses should be worn when using compressed air.

3. **AIR AND FUEL LINES.** If the air or fuel lines are removed during cleaning, be sure all connections are tight before operating unit.
4. **AIR PRESSURE SETTING.** The air pressure has been properly set at the factory. If the air pressure is out of adjustment, it will most likely be caused by dirty air filters, a partially plugged nozzle, an air leak in the system or improperly set pressure. If adjustment becomes necessary, first determine the proper pressure setting for your heater which is printed on the serial label located on the fuel tank. Remove the plug from the air filter cover and attach an accurate pressure gauge calibrated to a maximum reading of 15 PSI. Start the heater and note the pressure reading. If the pressure is low, slowly turn the pressure adjusting screw in (Clockwise) until the correct pressure is obtained. If the air pressure is high, turn the adjusting screw out (counterclockwise) until the pressure is correct. When correct pressure is reached, unplug the heater, remove the gauge and replace the plug.

STORAGE

Store the heater in a dry location free from fumes or dust.

At the end of each heating season, clean the heater as described in the MAINTENANCE section. Drain and flush the fuel tank with clean fuel. The manufacturer recommends completely filling the tank with fuel for extended storage to minimize condensation inside the tank.

SERVICING

A hazardous condition may result if a heater is used that has been modified or is not functioning properly. When the heater is working properly:

- * The flame is contained within the heater.
- * The flame is essentially yellow.
- * There is no strong disagreeable odor, eye burning or other physical discomfort.
- * There is no smoke or soot internal or external to the heater.
- * There are no unplanned or unexplained shut downs of the heater.

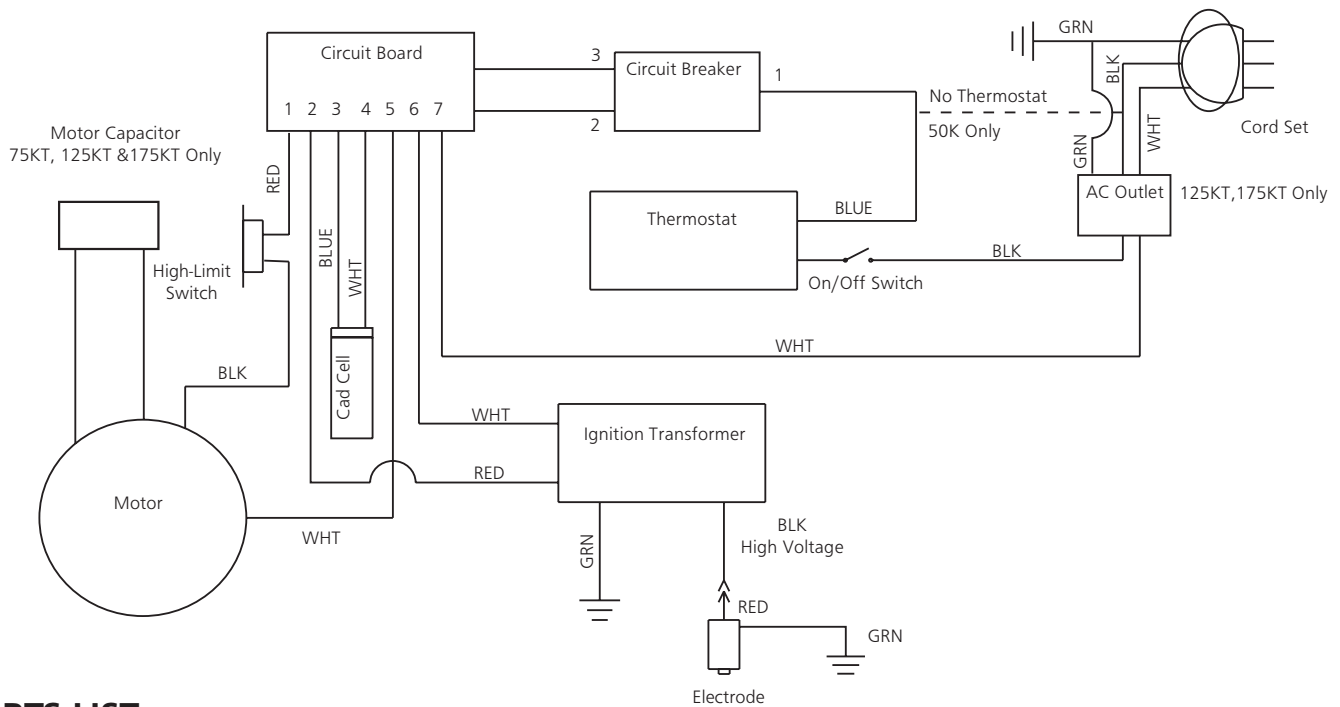
The parts lists and wiring diagram show the heater as it was constructed. Do not use a heater which is different from that shown. Heater performance is effected by air pressure setting. If there is any uncertainty about the air pressure setting, have it checked.

A heater which is *not* working right must be repaired, but *only* by a trained, experienced service person.

In-warranty products will be repaired with no charge for either parts or labor. Please include a brief statement indicating date, place of purchase, the nature of the problem and proof of purchase.

Out-of-warranty products will be repaired with a charge for parts and labor.

WIRING DIAGRAM

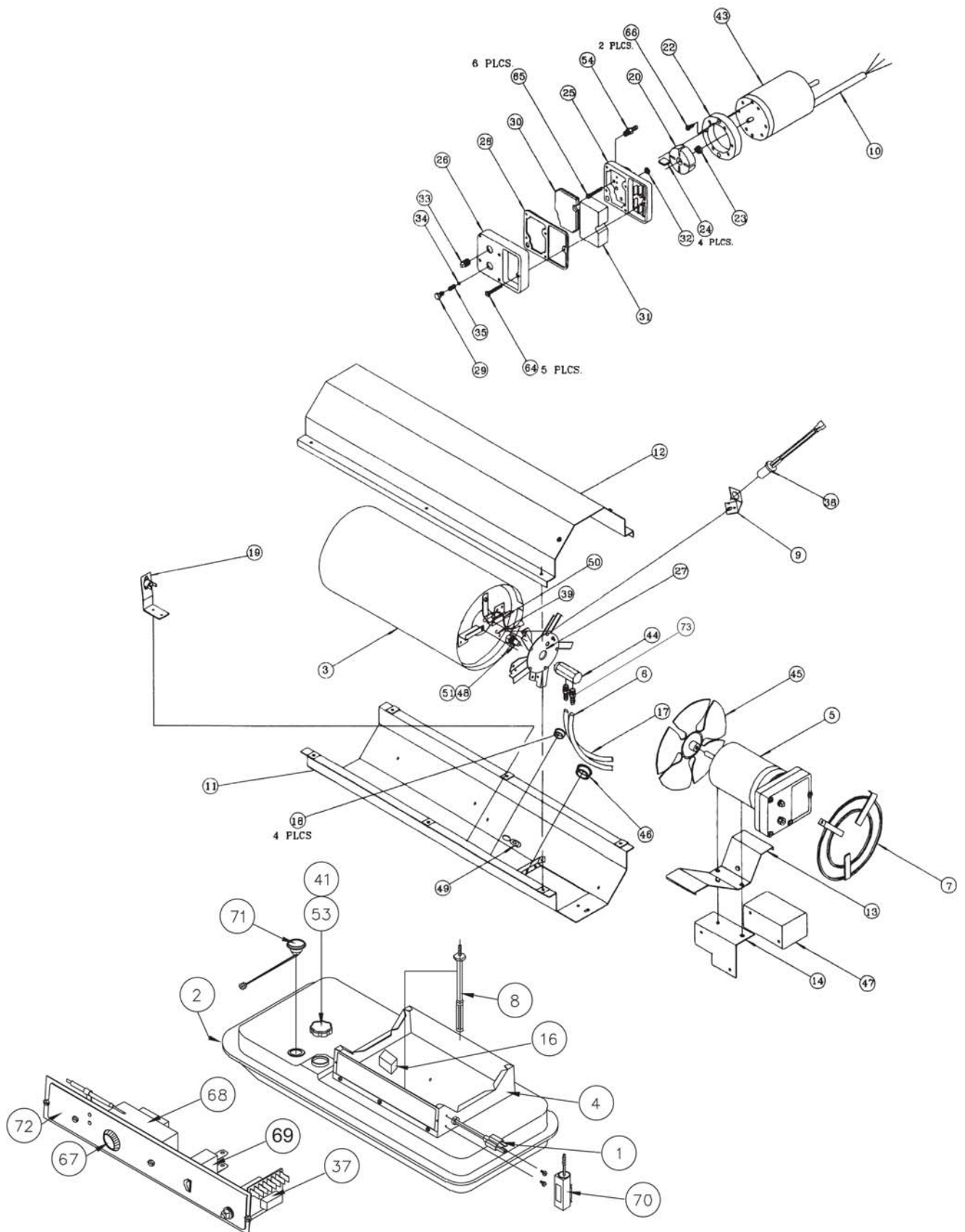


PARTS LIST

Ref.#	Item #	Item #	Item #	Item #	Description	Ref.#	Item #	Item #	Item #	Item #	Description
	50K	75KT	125KT	175KT			50K	75KT	125KT	175KT	
1	M1036	M1036	M1036	M1036	Power Cord	39	—	M2232	M2233	M2234	Comb. Chamber Cyl. Ass'y
2	M1676	M2213	M2214	M2214	Fuel Tank Assembly	41	M6993	M8736	M8736	M8736	Oil Fuel Cap
3	M1679	M2215	M2216	M1783	Radiation Shield Ass'y	43	M7339	M8737	M8738	M8738	Motor
4	M1688	M2217	M2218	M2219	Control Box Ass'y	44	M7790	M7790	M8739	M8739	Nozzle Adapter
5	M1682	M2258	M2259	M2259	Power Pac Ass'y	45	M7421	M8740	M6885	M6866	Fan
6	M1686	M4343	M4346	M4346	Fuel Tube	46	—	—	M6227	M6227	Snap Bushing
7	M1685	M8734	M1771	M1768	Grille Assembly	47	M1684	M2138	M2138	M2138	Igniter Assembly
8	—	M8779	M8780	M8780	Fuel Filter Ass'y	48	M7416	M8715	M8714	M8710	Fuel Air Aspir. Nozzle
9	M4011	M4011	M4011	M4011	Oil Cad Cell Bracket	49	M6223	M6223	M6223	M6223	Strain Relief Bushing
10	M3449	M3449	M3449	M3449	Motor Cord Sleeve	50	M1803	M1803	M2235	M2235	Electrode Assembly
11	M1050	M1075	M1125	M1175	Bottom Shell	51	M7429	M7429	M7429	M7429	Extrnl. Retaining Ring
12	M2050	M2075	M2125	M2175	Top Shell	53	M3487	M3487	M3487	M3487	Fuel Cap Gasket
13	M3704	4332	M4333	M4334	Motor Mounting Bracket	54	M6847	M6847	M8744	M8744	Hose Barb Adapter
14	M3705	M3705	M3818	M3705	Ignition Mounting Brkt.	*	M7094	M7094	—	—	Clip Hanle Mtg.
16	—	M8788	M8735	M8735	Start Capacitor	*	M7095	M7095	—	—	Handle
17	M3725	M3725	M4345	M4345	Air Tube	*	M1683	M1683	M1683	M1683	Lead Wire Ass'y Green
18	M6225	M6225	M6225	M6225	Snap Bushing	*	—	M1040	M1040	M1040	Lead Wire Ass'y Black
19	M1796	M1796	M1797	M1798	High Limit Control	*	M7424	—	—	M6225	Snap Busing Nylon
20	M6831	M6831	M6831	M6831	Air Pump Rotor	*	—	M8745	M6862	M6862	Fuel Filter Bushing
22	M6833	M6833	M6833	M6833	Air Pump Cylinder	64	M6838	M6838	M6838	M6838	Screw, Tapping #9 x 1-1/4"
23	M6834	M6834	M6834	M6834	Nylon Air Pump Insert	65	M6908	M6908	M6908	M6908	Screw, Machine #10 x 1-1/4"
24	M6835	M6835	M6835	M6835	Air Pump Vane (4 ea.)	66	M6906	M6906	M6906	M6906	Screw, Machine #10 x 1/2"
25	M3250	M3250	M3250	M3250	Outlet Housing	67	—	M1942	M1942	M1942	Thermostat Knob
26	M3255	M3255	M3255	M3255	Inlet Housing	*	—	M3441	M3441	M3441	Bracket Thermostat Mtg.
27	—	—	M2257	M2257	Burner	68	—	M1734	M1734	M1734	Thermostat Assembly
28	M3260	M3260	M3260	M3260	Gasket	*	—	M6070	M6070	6070	Clamp Loop
29	M3265	M3265	M3265	M3265	Adjusting Screw	69	—	M8785	M8785	M8785	ON/OFF Switch
30	M3270	M3270	M3270	M3270	Outlet Filter	70	—	M8782	M8781	M8781	Pressure Gauge
31	M3275	M3275	M3275	M3275	Inlet Filter	71	—	M8791	M8778	M8778	Fuel Gauge
32	—	—	—	—	—	72	M3707	M4341	M4342	M4342	Access Panel
33	M6849	M6849	M6849	M6849	Nylon Pipe Plug	73	—	—	M8783	M8783	Hose Barb Adaptor
34	M6850	M6850	M6850	M6850	Ball,. Pressure adj.	*	—	M8682	M8683	M8683	Logo, Mr. Heater
35	M6851	M6851	M6851	M6851	Spring, Pressure adj.	*	—	—	M8790	M8790	Adapter, T-hose barb
37	M6863	M6863	M6863	M6863	Oil Flame Control Ass'y	*	M4171	M4171	—	—	Nozzle mtg. plate
38	M6865	M6865	M6865	M6865	Cad Cell Flame Sensor	*	M3843	—	—	—	Electrode Mtg. Brkt.
						*					AC Recepticle

* Not shown in drawing

Kerosene Forced Air Construction Heater • Model #50, #75KT, #125KT and #175KT



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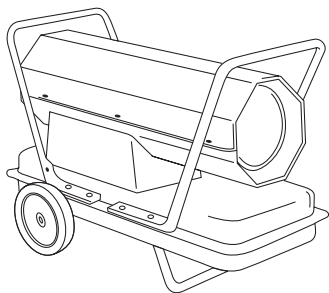
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HS125KT, HS175KT



WARNING:

USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH. REPLACEMENT PARTS ARE ONLY AVAILABLE DIRECT FROM THE FACTORY AND MUST BE INSTALLED BY A QUALIFIED SERVICE AGENCY.

PARTS ORDERING INFORMATION:

PURCHASING: Accessories may be purchased at any Mr. Heater/HeatStar local dealer or direct from the factory

FOR INFORMATION REGARDING SERVICE

Please call Toll-Free 800-251-0001 • www.enerco-mrheater.com

Our office hours are 8:30 AM – 5:00 PM, EST, Monday through Friday.

Email to: techservice@enerco-mrheater.com

Please include the model number, date of purchase, and description of problem in all communication.

LIMITED WARRANTY

The company warrants this product to be free from imperfections in material or workmanship, under normal and proper use in accordance with instructions of The Company, for a period of one year from the date of delivery to the buyer. The Company, at its option, will repair or replace products returned by the buyer to the factory, transportation prepaid within said one year period and found by the Company to have imperfections in material or workmanship.

If a part is damaged or missing, call our Technical Support Department at 800-251-0001.

Address any Warranty Claims to the Service Department, Enerco Group, Inc., 4560 W. 160TH ST., Cleveland, Ohio 44135. Include your name, address and telephone number and include details concerning the claim. Also, supply us with the purchase date and the name and address of the dealer from whom you purchased our product.

The foregoing is the full extent of the responsibility of the Company. There are no other warranties, express or implied. Specifically there is no warranty of fitness for a particular purpose and there is no warranty of merchantability. In no event shall the Company be liable for delay caused by imperfections, for consequential damages, or for any charges of the expense of any nature incurred without its written consent. The cost of repair or replacement shall be the exclusive remedy for any breach of warranty. There is no warranty against infringement of the like and no implied warranty arising from course of dealing or usage of trade. This warranty will not apply to any product which has been repaired or altered outside of the factory in any respect which in our judgment affects its condition or operation.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Enerco Group, Inc. reserves the right to make changes at any time, without notice or obligation, in colors, specifications, accessories, materials and models.



UL-733, &CSA/CAN3-B140.9.3

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